

CLAIMS

What is claimed is:

1. A system for controlling the density of drilling fluid in a wellbore in well drilling operations, comprising:

a drill string having a top end and a bottom end, the top end of said drill string being located at the surface, the bottom end of said drill string being located in the wellbore, said drill string for delivering a drilling fluid having a predetermined density from the surface to the wellbore;

a drill bit connected to the bottom end of the drill string; and

a wellhead injection apparatus for delivering a base fluid having a predetermined density from the surface into the wellbore to create a combination fluid, said base fluid having a density greater than the density of the drilling fluid, said combination fluid having a predetermined density that is defined by a selected ratio of the drilling fluid and the base fluid, said combination fluid rising to the surface.